CLAIMS

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1. A packaging architecture system for a transceiver comprising: a forward vertical carrier having an optical converter; a stiffener block, the stiffener block oriented about 90 degrees from the forward vertical carrier; and

a flexible cable electrically connecting the optical converter of the forward vertical carrier to a solder ball array aligned with the stiffener block.

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The system of claim 1 wherein the optical converter is at least one 2. laser.

3. The system of claim 1 wherein the optical converter is at least one photodetector.

4. The system of claim 1 further comprising an electronic component die thermally connected to the forward vertical carrier.

5. The system of claim 1 further comprising an electronic component die thermally connected to the stiffener block.

6. The system of claim 1 further comprising a heat sink thermally connected to the forward vertical carrier and the stiffener block.

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A packaging architecture system for a transceiver comprising:

means for a electrically connecting the optical converter and the electrical connection.

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- 8. The system of claim 7 wherein the optical converter is at least one laser.
- 9. The system of claim 7 wherein the optical converter is at least one photodetector.
- 10. The system of claim 7 further comprising an electronic component die thermally connected to the first supporting means.
- 11. The system of claim 7 further comprising an electronic component die thermally connected to the second supporting means.
- 12. The system of claim 7 further comprising means for removing heat thermally connected to the first supporting means and the second supporting means.

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- 13. The system of claim 7 further comprising means for removing heat, the heat removing means having a heat sink vertical portion and a heat sink horizontal portion, the heat sink vertical portion being attached to the second supporting means and the heat sink horizontal portion being attached to the second supporting means.
- 14. A packaging architecture system for a transceiver comprising: a heat sink, the heat sink having a first surface and a second surface, the first surface being oriented about 90 degrees from the second surface;

a forward vertical carrier having an optical converter, the forward vertical carrier being attached to the first surface of the heat sink;

a stiffener block, the stiffener block being attached to the second surface of the heat sink;

a rearward horizontal I/O block, the rearward horizontal I/O block being attached to the stiffener block; and

a flexible cable electrically connecting the optical converter of the forward vertical carrier to a solder ball array aligned with the stiffener block.

- 15. The system of claim 14 wherein the optical converter comprises at least one laser.
- 16. The system of claim 14 wherein the optical converter is at least one photodetector.

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- 17. The system of claim 14 further comprising an electronic component die thermally connected to the forward vertical carrier.
- 5 18. The system of claim 17 wherein the electronic component is selected from the group consisting of a laser drive amplifier and a transimpedance amplifier.
 - 19. The system of claim 14 further comprising an electronic component die thermally connected to the stiffener block.
 - 20. The system of claim 19 wherein the electronic component is selected from the group consisting of a receiver post amplifier and an eeprom.